

1 Probabilities

1.1 Experimental Probability of Democratic Candidate Winning the Electoral Vote Given the Individual Probability of the Candidate Winning Each State is the 2020 Popular Vote Percentage

```
v := [81282896, 74222484];  
p := v[1]/(v[1]+v[2]);  
WinProb(USEC(),p,1000);
```

Output:
0.5840000000

1.2 Calculated Probability of Democratic Candidate Winning the Electoral Vote Given the Individual Probability of the Candidate Winning Each State is the 2020 Popular Vote pPercentage

```
v := [81282896, 74222484]:  
p := v[1]/(v[1]+v[2]):  
f:=evalf(GFvp(USEC(),p,x)):  
evalf(add(coeff(f,x,i),i=270..degree(f,x)));
```

Output:
0.5896628367

1.3 Experimental Probability of Democratic Candidate Winning the Electoral Vote Using (Recent) Historical Data

```
WinProbInformed(USEC2(),1000);
```

Output:
0.5560000000

1.4 Calculated Probability of Democratic Candidate Winning the Electoral Vote Using (Recent) Historical Data

```
f:=evalf(GFvp2(USEC2(),x)):  
evalf(add(coeff(f,x,i),i=270..degree(f,x)));
```

0.5613012890

2 Averages

2.1 Experimental Average Number of Electoral Votes for Democratic Candidate Using Only 2020 Popular Vote as Individual Probability of the Candidate Winning Each State

```
v := [81282896, 74222484];
p:=v[1]/(v[1]+v[2]);
s1:=SimuCount(USEC(),p,1000,4);

[281.4120000, 49.75313314, -0.03161792474, 2.712346039], 0.1530000000
```

2.2 Experimental Average Number of Electoral Votes for Democratic Candidate Using (Recent) Historical Data

```
s2:=SimuCountInformed(USEC2(),1000,4);

[274.4650000, 25.34736229, 0.06630275564, 2.907743535], 0.08900000000
```

2.3 Calculated Expected Average Number of Electoral Votes for Democratic Candidate Using Only 2020 Popular Vote Individual Probability of the Candidate Winning Each State

```
v := [81282896, 74222484]:
p:=v[1]/(v[1]+v[2]):
s1:=evalf(StatAnal(GFvp(USEC(),p,x),x,10)):
s1[1];

281.2134091
```

2.4 Calculated Expected Average Number of Electoral Votes for Democratic Candidate Using (Recent) Historical Data

```
s2:=evalf(StatAnal(GFvp2(USEC2(),x),x,10)):
s2[1];

274.2380952
```

3 (Finite) Sequences

3.1 Sequence for the Number of Ways One of the Candidates can get Exactly i Electoral Votes

```
f:=(GFv(USEC(),x)):
seq(coeff(f,x,i),i=1..degree(f,x));

0, 0, 8, 5, 3, 34, 43, 36, 122, 201, 217, 427, 730, 920, 1434, 2330, 3162,
```

4508, 6821, 9479, 13080, 18682, 25832, 35065, 48207, 65508, 87739, 117572, 156685, 206935, 272173, 356345, 463822, 600849, 774662, 994337, 1270768, 1616541, 2048369, 2585598, 3249925, 4069867, 5079078, 6314467, 7823149, 9661071, 11890042, 14586067, 17839141, 21749899, 26438475, 32046021, 38731301, 46681006, 56111173, 67265736, 80428483, 95923935, 114117746, 135431808, 160344810, 189392667, 223189856, 262428980, 307880930, 360421915, 421035657, 490811551, 570975786, 662899405, 768094894, 888249964, 1025240398, 1181130618, 1358206138, 1558990312, 1786252409, 2043040165, 2332695429, 2658870568, 3025567470, 3437146528, 3898350489, 4414352627, 4990760988, 5633643424, 6349587741, 7145704429, 8029647723, 9009686538, 10094708495, 11294238537, 12618513241, 14078488658, 15685857870, 17453125685, 19393617918, 21521499793, 23851849790, 26400664613, 29184882177, 32222453648, 35532339797, 39134535973, 43050144947, 47301362511, 51911499571, 56905057539, 62307700923, 68146273105, 74448872844, 81244816938, 88564644621, 96440188453, 104904532333, 113992004741, 123738237027, 134180113015, 145355758292, 157304580196, 170067202350, 183685457590, 198202408042, 213662255583, 230110337445, 247593139583, 266158172954, 285853963718, 306730068064, 328836918688, 352225800892, 376948865953, 403058961273, 430609581706, 459654879646, 490249486728, 522448446323, 556307206020, 591881433527, 629226945869, 668399676139, 709455482123, 752450074576, 797438967890, 844477271443, 893619626284, 944920144061, 998432176367, 1054208260428, 1112300053668, 1172758090898, 1235631725736, 1300969070333, 1368816743171, 1439219811592, 1512221733293, 1587864104004, 1666186601756, 1747226922544, 1831020544692, 1917600677723, 2006998189890, 2099241380376, 2194355954575, 2292364942448, 2393288472556, 2497143781269, 2603945128309, 2713703569031, 2826426993933, 2942120066210, 3060783981004, 3182416524832, 3307012046945, 3434561225645, 3565051131004, 3698465221563, 3834783141606, 3973980781619, 4116030292397, 4260899922648, 4408554089850, 4558953388854, 4712054472792, 4867810158974, 5026169423561, 5187077307934, 5350475067160, 5516300169293, 5684486211266, 5854963107251, 6027657103282, 6202490695643, 6379382850728, 6558249046909, 6739001203352, 6921547906574, 7105794480365, 7291642941851, 7478992230098, 7667738290388, 7857774059618, 8048989703546, 8241272700785, 8434507865623, 8628577597686, 8823361952383, 9018738688916, 9214583548036, 9410770317986, 9607170879264, 9803655512445, 10000092968338, 10196350507747, 10392294222573, 10587789125958, 10782699181774, 10976887613498, 11170217031674, 11362549466188, 11553746646010, 11743670135244, 11932181400862, 12119142062779, 12304414017695, 12487859542917, 12669341528675, 12848723576633, 13025870124994, 13200646697126, 14034361825186, 14192169290107, 14346705962992, 14497850601898, 14645484307520, 14789490592886, 14929755436539, 15066167512346, 15198618276161, 15327002026946, 15451216094853, 15571160921779, 15686740130226, 15797860694803, 15904432998027, 16006370908045, 16103591935405, 16196017263096, 16283571817344, 16366184428318, 16443787845527, 16516318770336, 16583718019998, 16645930548169,

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 206935, 156685, 117572, 87739, 65508, 48207, 35065, 25832, 18682, 13080,
 9479, 6821, 4508, 3162, 2330, 1434, 920, 730, 427, 217, 201, 122, 36, 43, 34,
 3, 5, 8, 0, 0, 1

3.2 Sequence for the Probability of Either Candidate Getting Exactly i Votes, Using USEC() and Using Biden's Popular Vote Percentage in 2020 as p

```
v:=[81282896,74222484];
p:=v[1]/(v[1]+v[2]);
f1 := evalf(GFvp(USEC(), p, x));
seq(coeff(f1,x,i),i=1..degree(f1,x));
```

0, 0, 3.637868801*10⁽⁻¹⁶⁾, 2.273668001*10⁽⁻¹⁶⁾, 1.364200801*10⁽⁻¹⁶⁾,
 1.667212504*10⁽⁻¹⁵⁾, 2.128380572*10⁽⁻¹⁵⁾, 1.784113138*10⁽⁻¹⁵⁾,
 6.327781814*10⁽⁻¹⁵⁾, 1.065549704*10⁽⁻¹⁴⁾, 1.156597235*10⁽⁻¹⁴⁾,
 2.336625882*10⁽⁻¹⁴⁾, 4.091855453*10⁽⁻¹⁴⁾, 5.212827776*10⁽⁻¹⁴⁾,
 8.283821011*10⁽⁻¹⁴⁾, 1.375117597*10⁽⁻¹³⁾, 1.891804349*10⁽⁻¹³⁾,
 2.741423846*10⁽⁻¹³⁾, 4.229581688*10⁽⁻¹³⁾, 5.964529940*10⁽⁻¹³⁾,
 8.355816723*10⁽⁻¹³⁾, 1.214407356*10⁽⁻¹²⁾, 1.704465321*10⁽⁻¹²⁾,
 2.347971690*10⁽⁻¹²⁾, 3.279752711*10⁽⁻¹²⁾, 4.522784626*10⁽⁻¹²⁾,
 6.144833815*10⁽⁻¹²⁾, 8.358955482*10⁽⁻¹²⁾, 1.129973542*10⁽⁻¹¹⁾,
 1.513266363*10⁽⁻¹¹⁾, 2.019079275*10⁽⁻¹¹⁾, 2.680343319*10⁽⁻¹¹⁾,
 3.536301472*10⁽⁻¹¹⁾, 4.644631296*10⁽⁻¹¹⁾, 6.069394846*10⁽⁻¹¹⁾,
 7.893687723*10⁽⁻¹¹⁾, 1.022345581*10⁽⁻¹⁰⁾, 1.317691476*10⁽⁻¹⁰⁾,
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 6.965556582*10⁽⁻¹⁰⁾, 8.707677463*10⁽⁻¹⁰⁾, 1.084765790*10⁽⁻⁹⁾,
 1.346809312*10⁽⁻⁹⁾, 1.666949894*10⁽⁻⁹⁾, 2.056635303*10⁽⁻⁹⁾,
 2.529541044*10⁽⁻⁹⁾, 3.102055450*10⁽⁻⁹⁾, 3.792939655*10⁽⁻⁹⁾,
 4.624378458*10⁽⁻⁹⁾, 5.622496334*10⁽⁻⁹⁾, 6.817228638*10⁽⁻⁹⁾,
 8.243712019*10⁽⁻⁹⁾, 9.942799058*10⁽⁻⁹⁾, 1.196112490*10⁽⁻⁸⁾,
 1.435302840*10⁽⁻⁸⁾, 1.718119211*10⁽⁻⁸⁾, 2.051669327*10⁽⁻⁸⁾,
 2.444179483*10⁽⁻⁸⁾, 2.905075157*10⁽⁻⁸⁾, 3.444983622*10⁽⁻⁸⁾,
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 1.069508525*10⁽⁻⁷⁾, 1.247153661*10⁽⁻⁷⁾, 1.451484741*10⁽⁻⁷⁾,

1.686069050*10⁽⁻⁷⁾, 1.954898401*10⁽⁻⁷⁾, 2.262406625*10⁽⁻⁷⁾,
 2.613530723*10⁽⁻⁷⁾, 3.013757964*10⁽⁻⁷⁾, 3.469156614*10⁽⁻⁷⁾,
 3.986452502*10⁽⁻⁷⁾, 4.573074977*10⁽⁻⁷⁾, 5.237199839*10⁽⁻⁷⁾,
 5.987846866*10⁽⁻⁷⁾, 6.834927944*10⁽⁻⁷⁾, 7.789295340*10⁽⁻⁷⁾,
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 1.293509356*10⁽⁻⁶⁾, 1.462812496*10⁽⁻⁶⁾, 1.651832811*10⁽⁻⁶⁾,
 1.862562377*10⁽⁻⁶⁾, 2.097161080*10⁽⁻⁶⁾, 2.357962411*10⁽⁻⁶⁾,
 2.647490587*10⁽⁻⁶⁾, 2.968470126*10⁽⁻⁶⁾, 3.323832727*10⁽⁻⁶⁾,
 3.716735606*10⁽⁻⁶⁾, 4.150571192*10⁽⁻⁶⁾, 4.628975352*10⁽⁻⁶⁾,
 5.155847146*10⁽⁻⁶⁾, 5.735357866*10⁽⁻⁶⁾, 6.371960050*10⁽⁻⁶⁾,
 7.070409090*10⁽⁻⁶⁾, 7.835771395*10⁽⁻⁶⁾, 8.673433061*10⁽⁻⁶⁾,
 9.589123418*10⁽⁻⁶⁾, 0.00001058892216, 0.00001167926690,
 0.00001286697820, 0.00001415926573, 0.00001556373403,
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0.002177704440, 0.002106752984, 0.002037014221, 0.001968511631,
0.001901266883, 0.001835299725, 0.001770628064, 0.001707268007,
0.001645233755, 0.001584537676, 0.001525190360, 0.001467200546,
0.001410575184, 0.001355319499, 0.001301436933, 0.001248929223,
0.001197796455, 0.001148037027, 0.001099647745, 0.001052623867,
0.001006959074, 0.0009626455885, 0.0009196742178,
0.0008780343265, 0.0008377139660, 0.0007986999250,
0.0007609777062, 0.0007245316576, 0.0006893450327,
0.0006553999689, 0.0006226776211, 0.0005911582219,

0.0005608210751, 0.0005316446826, 0.0005036067980,
 0.0004766844361, 0.0004508539986, 0.0004260913176,
 0.0004023716699, 0.0003796699120, 0.0003579605059,
 0.0003372175362, 0.0003174148544, 0.0002985260940,
 0.0002805246755, 0.0002633839576, 0.0002470772557,
 0.0002315778282, 0.0002168590239, 0.0002028943060,
 0.0001896572316, 0.0001771215794, 0.0001652613809,
 0.0001540509010, 0.0001434647399, 0.0001334778621,
 0.0001240655879, 0.0001152036761, 0.0001068683352,
 0.00009903622533, 0.00009168453344, 0.00008479096381,
 0.00007833374201, 0.00007229168697, 0.00006664418709,
 0.00006137119663, 0.00005645330753, 0.00005187171738,
 0.00004760821584, 0.00004364524921, 0.00003996588670,
 0.00003655380287, 0.00003339332836, 0.00003046941434,
 0.00002776761452, 0.00002527412486, 0.00002297574265,
 0.00002085985076, 0.00001891444971, 0.00001712810734,
 0.00001548994753, 0.00001398967824, 0.00001261753419,
 0.00001136426308, 0.00001022115520, $9.179983220 \times 10^{-6}$,
 $8.232982147 \times 10^{-6}$, $7.372881846 \times 10^{-6}$, $6.592846955 \times 10^{-6}$,
 $5.886451606 \times 10^{-6}$, $5.247708973 \times 10^{-6}$, $4.671021680 \times 10^{-6}$,
 $4.151149243 \times 10^{-6}$, $3.683230521 \times 10^{-6}$, $3.262746384 \times 10^{-6}$,
 $2.885487270 \times 10^{-6}$, $2.547564920 \times 10^{-6}$, $2.245381779 \times 10^{-6}$,
 $1.975609092 \times 10^{-6}$, $1.735184668 \times 10^{-6}$, $1.521286459 \times 10^{-6}$,
 $1.331322017 \times 10^{-6}$, $1.162920766 \times 10^{-6}$, $1.013902848 \times 10^{-6}$,
 $8.822788416 \times 10^{-7}$, $7.662456522 \times 10^{-7}$, $6.641476219 \times 10^{-7}$,
 $5.744821085 \times 10^{-7}$, $4.959000364 \times 10^{-7}$, $4.271673763 \times 10^{-7}$,
 $3.671673251 \times 10^{-7}$, $3.149077619 \times 10^{-7}$, $2.694861598 \times 10^{-7}$,
 $2.300876638 \times 10^{-7}$, $1.959951440 \times 10^{-7}$, $1.665601175 \times 10^{-7}$,
 $1.412008869 \times 10^{-7}$, $1.194083968 \times 10^{-7}$, $1.007251883 \times 10^{-7}$,
 $8.474408064 \times 10^{-8}$, $7.111214913 \times 10^{-8}$, $5.951228296 \times 10^{-8}$,
 $4.966513425 \times 10^{-8}$, $4.133229405 \times 10^{-8}$, $3.429794526 \times 10^{-8}$,
 $2.837425087 \times 10^{-8}$, $2.340428273 \times 10^{-8}$, $1.924513673 \times 10^{-8}$,
 $1.577209883 \times 10^{-8}$, $1.288489749 \times 10^{-8}$, $1.049166601 \times 10^{-8}$,
 $8.511149651 \times 10^{-9}$, $6.880732029 \times 10^{-9}$, $5.543377073 \times 10^{-9}$,
 $4.447608308 \times 10^{-9}$, $3.554535156 \times 10^{-9}$, $2.830461958 \times 10^{-9}$,
 $2.243942549 \times 10^{-9}$, $1.770944873 \times 10^{-9}$, $1.391873529 \times 10^{-9}$,
 $1.089116150 \times 10^{-9}$, $8.479545473 \times 10^{-10}$, $6.565157083 \times 10^{-10}$,
 $5.062378748 \times 10^{-10}$, $3.885898840 \times 10^{-10}$, $2.956924590 \times 10^{-10}$,
 $2.239493370 \times 10^{-10}$, $1.695748625 \times 10^{-10}$, $1.265964531 \times 10^{-10}$,
 $9.353504042 \times 10^{-11}$, $6.991594776 \times 10^{-11}$, $5.130807399 \times 10^{-11}$,
 $3.653955719 \times 10^{-11}$, $2.688058705 \times 10^{-11}$, $1.962180912 \times 10^{-11}$,
 $1.321754341 \times 10^{-11}$, $9.422708386 \times 10^{-12}$, $7.036364037 \times 10^{-12}$,
 $4.421468018 \times 10^{-12}$, $2.892109389 \times 10^{-12}$, $2.319612029 \times 10^{-12}$,
 $1.388698216 \times 10^{-12}$, $7.241004765 \times 10^{-13}$, $6.744976234 \times 10^{-13}$,
 $4.185621743 \times 10^{-13}$, $1.290046751 \times 10^{-13}$, $1.542961360 \times 10^{-13}$,

$$1.232317643 \cdot 10^{-13}, 1.171113008 \cdot 10^{-14}, 1.951855014 \cdot 10^{-14}, \\ 3.122968023 \cdot 10^{-14}, 0, 0, 4.275050350 \cdot 10^{-15}$$

3.3 Sequence for the Probability of Either Candidate Getting Exactly i Votes, Using USEC2()

```
f2 := evalf(GFvp2(USEC2(), x));
seq(coeff(f2,x,i),i=1..degree(f2,x));
```

[illegible]

0.004975963334, 0.005135306332, 0.004105964660, 0.004153937461,
 0.003281062026, 0.004141367107, 0.003469324638, 0.003447546058,
 0.002756946204, 0.002690319964, 0.002777201194, 0.002466294013,
 0.002592107116, 0.001816690133, 0.002095842147, 0.001666656093,
 0.001900730828, 0.001471007295, 0.001496663775, 0.001231622305,
 0.001210481955, 0.001174779930, 0.0009195877548, 0.001034786870,
 0.0007473027339, 0.0008556637373, 0.0006261783690, 0.0006520909143,
 0.0005287008696, 0.0005571399201, 0.0004773801620, 0.0003760136449,
 0.0003590899668, 0.0002770226088, 0.0003531918372, 0.0002430249243,
 0.0002575939456, 0.0001446491535, 0.0001755400376, 0.0001719956197,
 0.0001577405269, 0.0001291956087, 0.00007317721636, 0.00008723773410,
 0.00007161755100, 0.0001024464199, 0.00004559285637, 0.00005148842056,
 0.00002193043512, 0.00004256944381, 0.00003794895521, 0.00003147962937,
 0.00001819554444, $7.873457830 \times 10^{-6}$, 0.00002042887981, 0.00001377509558,
 0.00001922623143, $4.144023420 \times 10^{-6}$, $5.758298016 \times 10^{-6}$,
 $2.190948312 \times 10^{-6}$, $9.803905578 \times 10^{-6}$, $4.395223375 \times 10^{-6}$,
 $3.695664076 \times 10^{-6}$, $9.709037037 \times 10^{-7}$, $3.499160033 \times 10^{-7}$,
 $3.094106289 \times 10^{-6}$, $1.530124112 \times 10^{-6}$, $1.861364906 \times 10^{-6}$,
 $1.392205768 \times 10^{-7}$, $2.635246632 \times 10^{-7}$, $1.039080690 \times 10^{-7}$,
 $1.412094422 \times 10^{-6}$, $1.988865383 \times 10^{-7}$, $1.802409253 \times 10^{-7}$,
 0, 0, $1.818391207 \times 10^{-7}$, $6.961028840 \times 10^{-8}$, $6.961028840 \times 10^{-8}$,
 0, 0, 0, $7.955461532 \times 10^{-8}$